

**Please amend the Abstract of the Invention as follows:**

A transmitting device of the present invention comprises an encoder (20), a transmitting unit (100) including ~~and~~ a pulse generator (30) and a parallel-to-serial converter (50), a transmitting control unit (40), and an antenna (90). The pulse generator (30) comprises a first pulse train generator (31), a second pulse train generator (32), ... and an n-th pulse train generator (33). A k-bit information bit train is inputted from the information signal source (10). The encoder (20) encodes the k-bit information bit train into an n-bit encoded bit train at a coded rate of  $(k/n)$ . The pulse generator (30) generates n-piece repetitive pulse trains corresponding to the n-bit encoded bit train. The antenna (90) transmits the n-piece repetitive pulse trains as UWB-IR.